

EXPRESS MAIL LABEL NO. EV314046062US

DATED: 16 JULY 2003

ATTY DOCKET: MXIC 1532-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Inventor:

Chih Yuan Huang et al.

Application No.: _____

Filed: 16 July 2003 (herewith)

Title: **Method for Forming Silicon Film with Changing
Grain Size by Thermal Process**

Group Art Unit: **unknown**

Examiner: **unknown**

Customer No. 22470

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56

Sir:

It is requested that the information identified in this statement be considered by the Examiner and made of record in the above-identified application. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56.

Enclosed with this statement are the following:

- ☒ Form PTO-SB/08. The Examiner is requested to initial the form and return it to the undersigned in accordance with M.P.E.P. §609.
- ☒ A copy of each cited document as required by 37 C.F.R. §1.98.

This statement should be considered because:

This statement qualifies under 37 C.F.R. §1.97, subsection (b) because it is being filed within three months of the filing date of an application other than a continued prosecution application under § 1.53(d);

The Commissioner is hereby authorized to charge underpayment of any additional fees or credit any overpayment associated with this communication to Deposit Account No. 50-0869 (MXIC 1532-1). A duplicate copy of this authorization is enclosed.

Respectfully submitted,

HAYNES BEFFEL & WOLFELD LLP

Date: 7/16/2003

By: Warren S. Wolfeld
Warren S. Wolfeld, Reg. No. 31,454

HAYNES BEFFEL & WOLFELD LLP

P.O. Box 366

Half Moon Bay, CA 94019

Telephone: (650) 712-0340

Facsimile: (650) 712-0263

EXPRESS MAIL LABEL NO. EV314046062US

DATED: 16 JULY 2003

ATTY DOCKET: MXIC 1532-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Inventor:

Chih Yuan Huang et al.

Application No.: _____

Filed: **16 July 2003 (herewith)**

Title: **Method for Forming Silicon Film with Changing Grain Size by Thermal Process**

Group Art Unit: **unknown**

Examiner: **unknown**

Customer No. 22470

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.56

Sir:

It is requested that the information identified in this statement be considered by the Examiner and made of record in the above-identified application. This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56.

Enclosed with this statement are the following:

- ☒ Form PTO-SB/08. The Examiner is requested to initial the form and return it to the undersigned in accordance with M.P.E.P. §609.
- ☒ A copy of each cited document as required by 37 C.F.R. §1.98.

This statement should be considered because:

This statement qualifies under 37 C.F.R. §1.97, subsection (b) because it is being filed within three months of the filing date of an application other than a continued prosecution application under § 1.53(d);

The Commissioner is hereby authorized to charge underpayment of any additional fees or credit any overpayment associated with this communication to Deposit Account No. 50-0869 (MXIC 1532-1). A duplicate copy of this authorization is enclosed.

Respectfully submitted,

HAYNES BEFFEL & WOLFELD LLP

Date: 7/16/2003

By: Warren S. Wolfeld
Warren S. Wolfeld, Reg. No. 31,454

HAYNES BEFFEL & WOLFELD LLP

P.O. Box 366

Half Moon Bay, CA 94019

Telephone: (650) 712-0340

Facsimile: (650) 712-0263

Please type a plus sign (+) inside this box → +

PTO/SB/08A (08-00)

Approved for use through 10/31/2002, OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number		
			Filing Date		
			First Named Inventor		
			Group Art Unit		
			Examiner Name		
Sheet	1	of	3	Attorney Docket Number	
				MXIC 1532-1	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	4,963,506		Liaw et al.	10-16-1990	
	A2	5,751,637		Chen et al.	05-12-1998	
	A3	5,753,134		Biebl	05/19/1998	
	A4	5,874,129		Beinglass et al.	02-23-1999	
	A5	6,268,068		Heuer et al.	07-31-2001	
	A6	6,373,092		Okumoto	04-16-2002	
	A7	10/180,168		Luoh	06-26-2002	(filing date)
	A8					
	A9					
	A10					
	A11					
	A12					
	A13					
	A14					
	A15					
	A16					
	A17					
	A18					
	A19					
	A20					

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁸
		Office ³	Number ⁴	Kind Code ⁵ (If known)				
	B1							
	B2							
	B3							
	B4							
	B5							
	B6							
	B7							
	B8							
	B9							
	B10							

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

+

+

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449B/PTO

Complete if Known

(use as many sheets as necessary)

Sheet

3

Q

3

Application Number

Filing Date

16 July 2003 (herewith)

First Named Inventor

Chih Yuan Huang et al.

Group Art Unit

Examiner Name

Attorney Docket Number

MXIC 1532-1

[illegible]

Examiner
Signature

Date _____

Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → +

PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Compleat if Known	
Application Number					
Filing Date		16 July 2003 (herewith)			
First Named Inventor		Chih Yuan Huang et al.			
Group Art Unit					
Examiner Name					
Attorney Docket Number		MXIC 1532-1			
Sheet	2	of	3		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1	KAHLER, U., et al. "Size related properties of silicon nanoparticles from decomposition of SiOx" http://www.mpi-halle.mpg.de/annual_reports/2000.pdf/jb_results_14.pdf , 2 pages.	/
	C2	"Polysilicon: The Successor Technology," http://www.wtec.org/loyola/dsply_jp/c5_s5.htm (June 1992), 3 pages	/
	C3	Polysilicon TFT, The Future is clear with Toshiba, http://www.toshiba-europe.com/computers/tnt/tft/ (2002), 1 page	/
	C4	Higher Resolution, The Future is clear with Toshiba, http://www.toshiba-europe.com/computers/tnt/tft/resolution.htm (2002), 1 page	/
	C5	Polysilicon Explained, The future is clear with Toshiba, http://www.toshiba-europe.com/computers/tnt/tft/explained.htm (2002), 1 pate	/
	C6	"Flash Memory Technology" Chapter 10, Integrated Circuit Engineering Corporation, http://smithsonianchips.si.edu/ice/cd/MEMORY97/SEC10.PDF (1997), pp. 10-1 through 10-16.	/
	C7	WILSON, RON, "Flash gets a quantum makeover at IEDM," EETIMES (12/13/2002), 4 pages.	/
	C8	"The K-Input Floating-Gate MOS (FGMOS) Transistor" http://people.ece.cornell.edu/minch/talks/FGMOSTdevicelayout.pdf , 22 pages	/
	C9	DIPERT, BRIAN, "Exotic Memories, diverse approaches" www.ednmag.com (04/26/2001), 9 pages	/
	C10	LAMMERS, DAVID, "Chip makers bang away at metal gates" EETIMES (11/26/2002), 3 pages	/
	C11	"Characterizing Very Thin ONO Gates with Laser Spectroscopic Ellipsometry" Rudolph Technologies, Inc. Application Reports (2001) http://www.rudolphtech.com/reports/VeryThinONOGates.htm , 3 pages	/

Examiner Signature	Date Considered
--------------------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.